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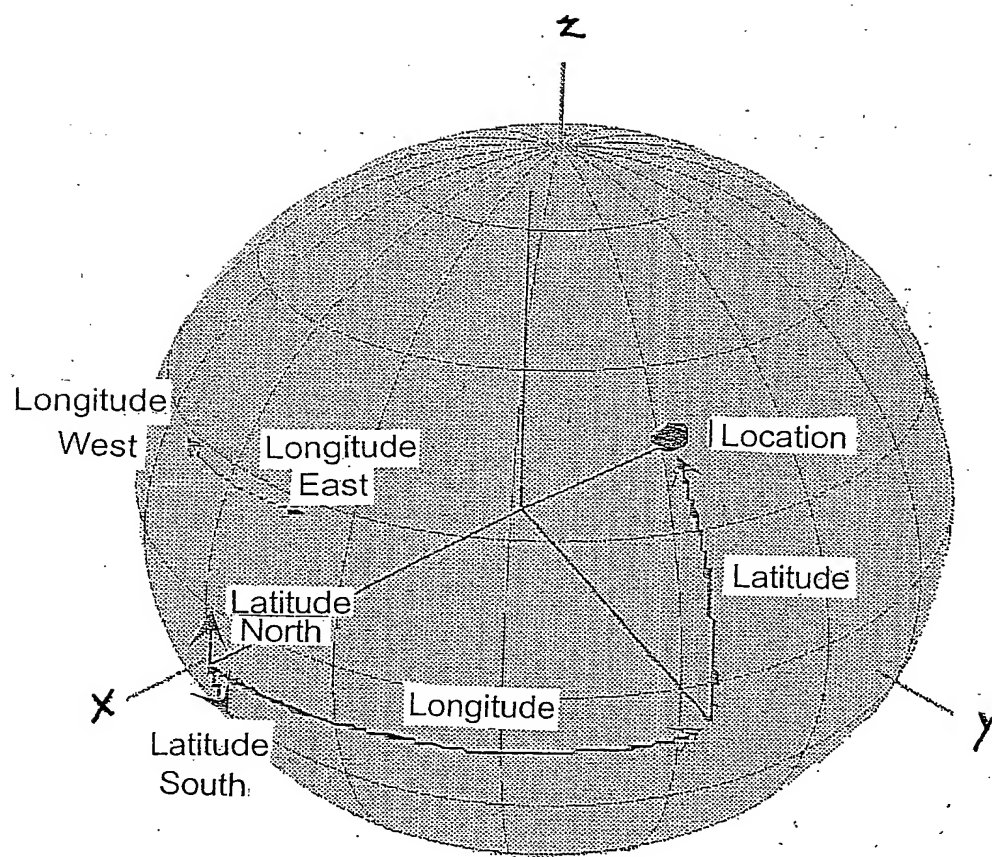


Fig. 1

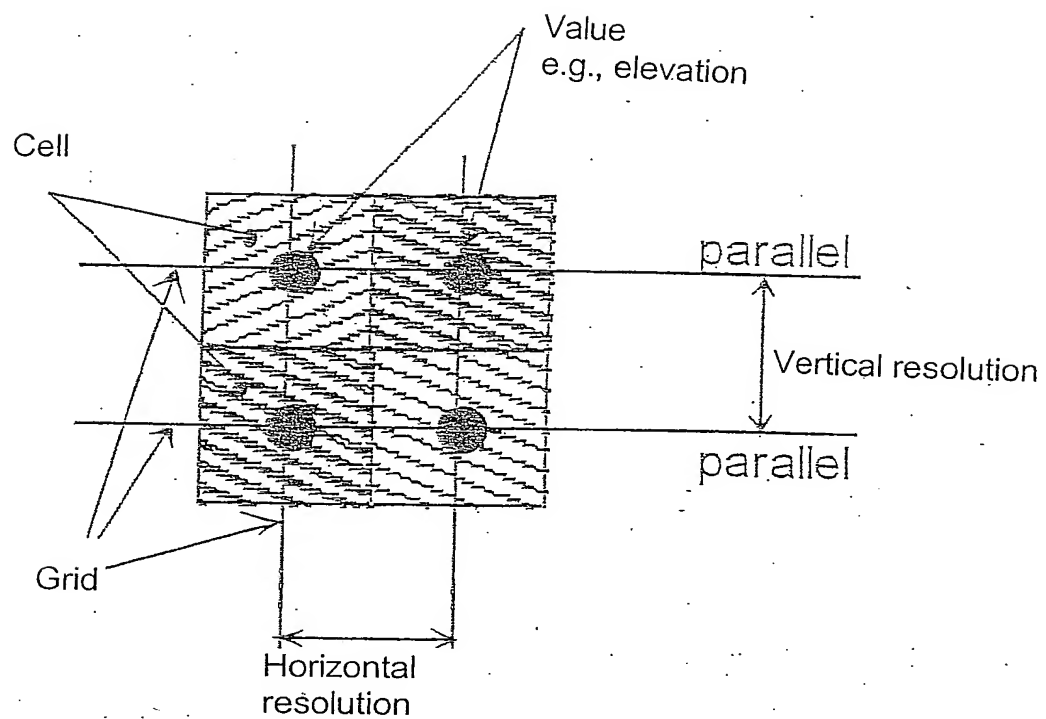


Fig. 2

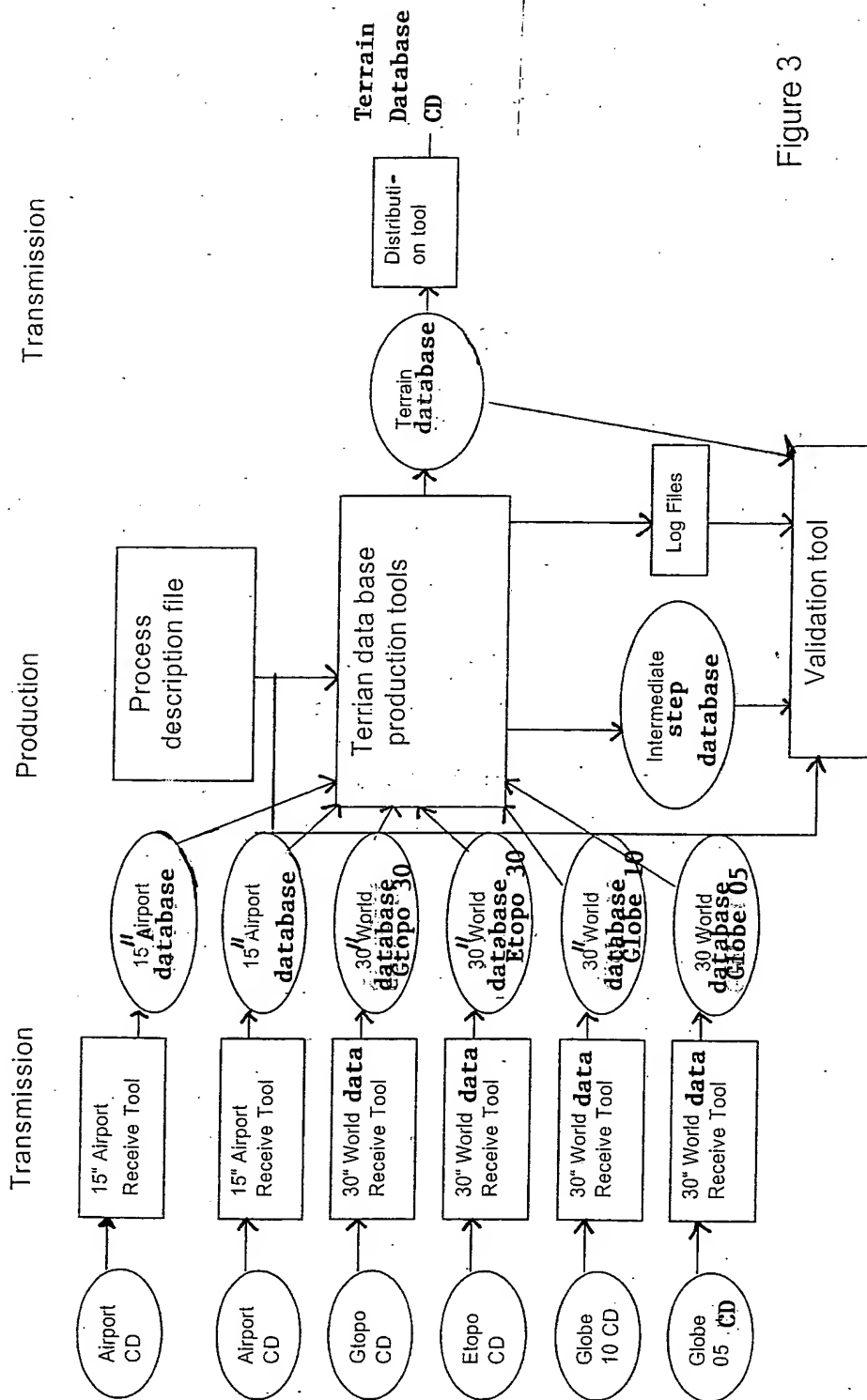


Figure 3

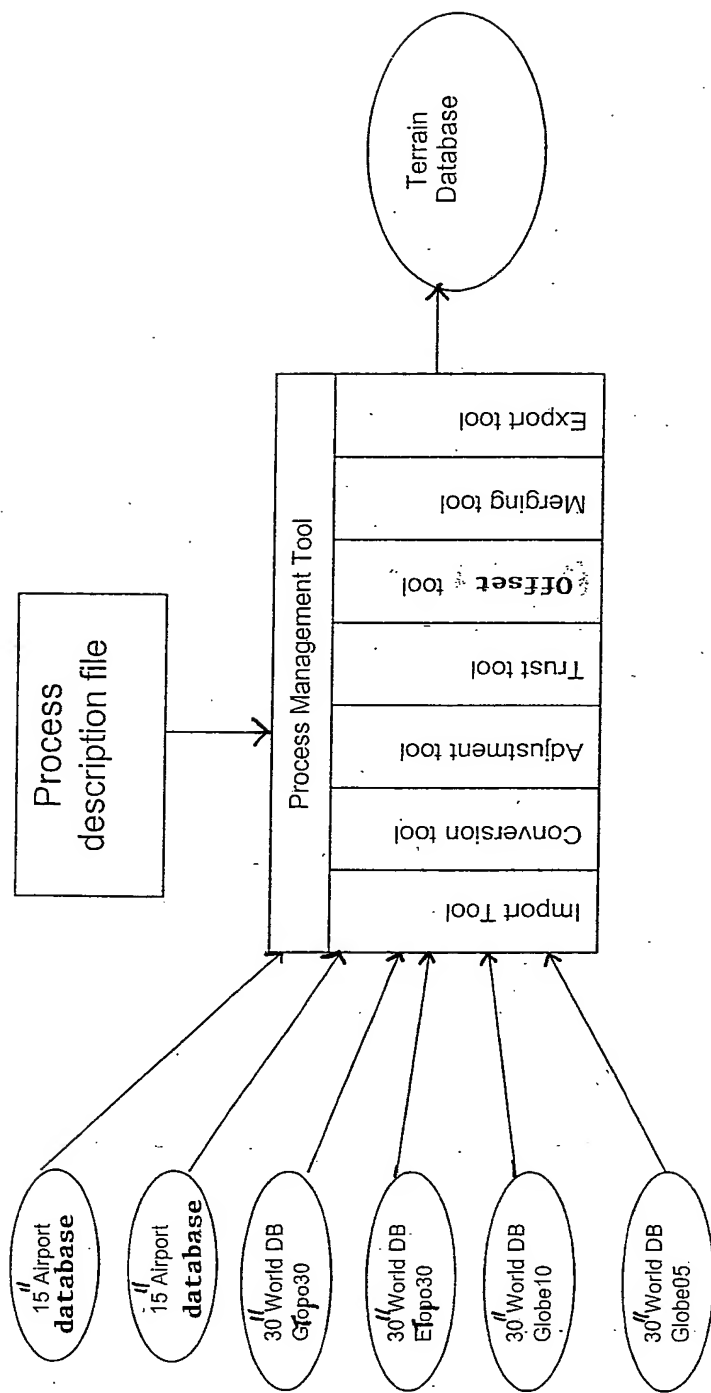


Figure 4

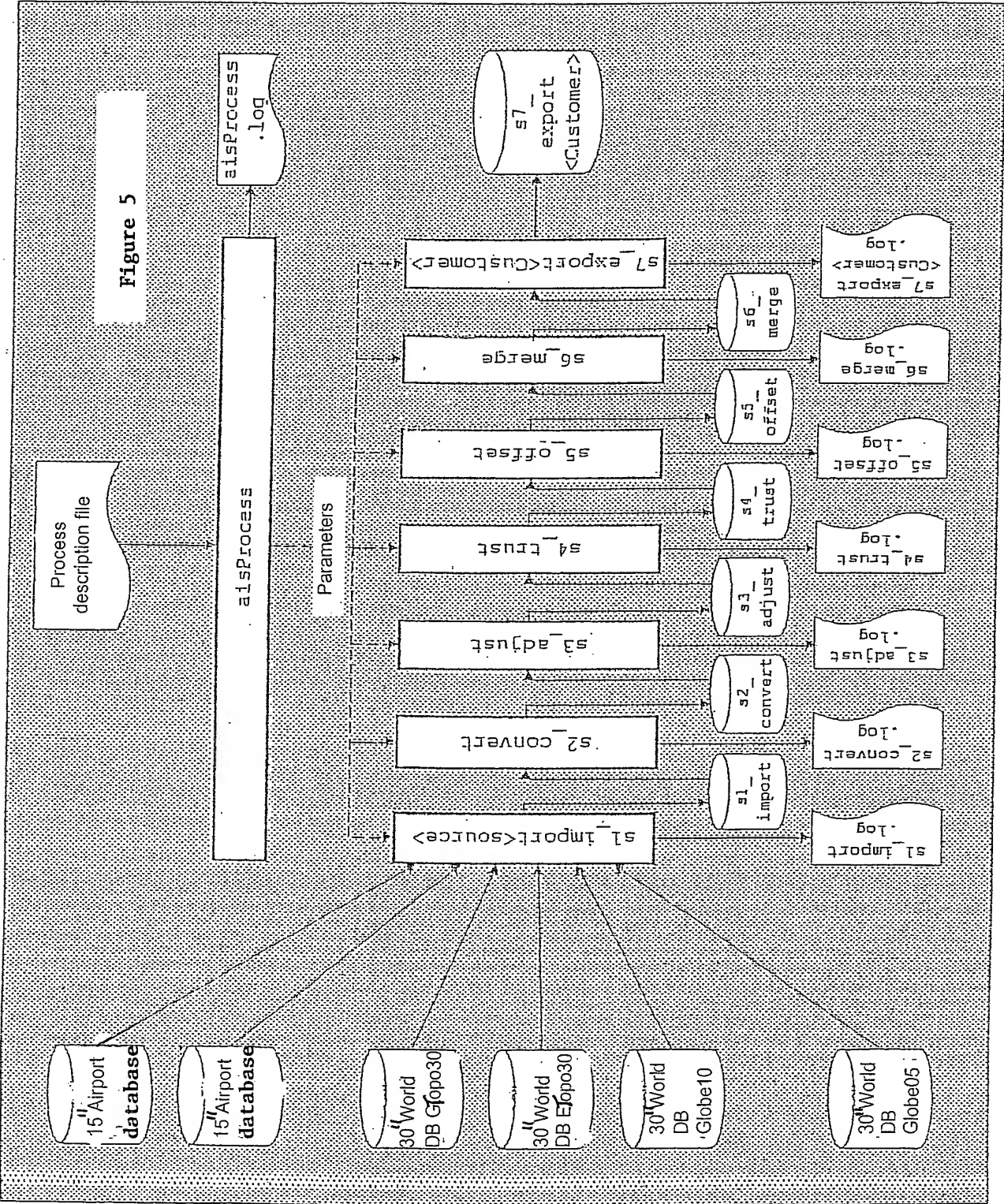


Figure 5

Tool	Purpose	Input	Output
Process Management Tool (PMT)	executes the individual production steps	process description file	log file
Import Tool	I mports source data in a common format	Installed source d ata parameters by PMT	source data in AIS format, log file
Convert Tool	Converts data into common horizontal and vertical d atum	Output of import tool, parameters by PMT	database with common format, log file
Adjustment Tool	A djusts resolution of data	Output of convert tool, parameters by PMT	database with common resolution, log file
Trust Tool	Checks data and optionally modifies the reliability values	Output of adjustment tool, parameters by PMT	Database with c hecked and c orrected r eliability v alues, l og f ile
Offset Tool	A dds offset to average data to simulate maximum data	Output of trust tool, parameters by PMT	Database with M aximum t ype, l og f ile
Merging Tool	Merges preprocessed sources	Output of offset tool, parameters by PMT	Merged database, log file
Export Tool	Transforms database into customer's format	Output of merging tool, parameters by PMT	Database in customer's format, log file

Figure 6

```

<DEMprocess name="process_WORLD_MAX_401.xml" id="DEM_WORLD_MAX_401"
    directory="/home/dem/P2/World_30_MAX">

<sourceList>
    <source name="Etopo30" directory="/DATA/DEM/Etopo30" deviation="395"
    <source name="Gtopo30" directory="/DATA/DEM/Gtopo30" deviation="20"
    <source name="Globe10" directory="/DATA/DEM/Globe10" deviation="18"
    <source name="Globe05" directory="/DATA/DEM/Globe05" deviation="100"
    <source name="Airports" directory="/DATA/DEM/Airports" deviation="8"
</sourceList>

<coordinateList>
    <coordinate name="NW" x="-180" y="90"
    <coordinate name="SE" x="180" y="-90"
</coordinateList>

```

Figure 7A1


```
<stepList>
  <step name="s1_import"/>
  <step name="s2_cover"/>
  <step name="s3_adjust"/>
  <step name="s4_trust"/>
  <step name="s5_offset"/>
  <step name="s6_merge"/>
  <step name="aisValidate"/>
  <step name="s7_export"/>
</stepList>

<paramList>
  <param name="elevationType" value="MAX"/>
  <param name="version" value="401"/>
  <param name="resolution" value="120">
</paramList>

</DEMprocess>
```

Figure 7A 2

```
aisProcess:
  read process description file
  parse process description file
  for each specified step
    create step directory
    if step in (s1_import,...,s5_offset)
      for each specified source
        call the step tool with the source
    else
      call the step tool
  report success/failure to the log file
```

Figure 7B

```

<AISlog>
  <header>
    <program name="aisProcess" version="4.12.0"/>
    <user name="dem"/>
    <start date="2002-10-31" time="15:02:45" />
  </header>

  <messages>
    <arguments>
      <argument name="processDescriptionFile"
        value="process_WORLD_30_AVG_403.xml" />
    </arguments>

```

Figure 8A

```

creating directory 's1_import'. OK
executing 's1_importAirports -elevationType AVG -version 403 -resolution 120 - source Deviation 8
/ DATA/DEM/Airports_IABG -o
/RAID/home/dem/Thales/P4/DEM_WORLD_30_AVG_403/s1_import/Airports_IABG-xNW-180
-yNW 90 -xSE 180 -ySE -90'. OK
    executing 's1_importAirports -elevationType AVG -version 403 -resolution 120 - source Deviation 8
/ DATA/DEM/Airports_GEG -o
/RAID/home/dem/Thales/P4/DEM_WORLD_30_AVG_403/s1_import/Airports_GEG-xNW-180
-yNW 90 -xSE 180 -ySE -90'. OK

```

```

executing 's7_export          -elevationType AVG -version 403 -- resolution 120
/RAID/home/dem/Thales/P4/DEM_WORLD_30_AVG_403/s6_merge-o
/RAID/home/dem/Thales/P4/DEM_WORLD_30_AVG_403/s7_exportThales-xNW-180-yNW90-xSE-180
-ySE -90
processDescriptionFile process_WORLD_30_AVG_403.xml. OK

</messages>

<Statistics>

  <start date-"2002-10-31" time-"15:02:45 />
  <end date-"2002-11-03" time-"04:51:53 />
  <runtime days-"3" time-"24:00:00 />
</statistics>
</AISlog>

```

Figure 8 B

```

<AISlog>
  <header>
    <program name="s2_convert" version="4.12.0" />
    <user name="dem" />
    <start date="2002-10-31" time="18:33:06" />
  </header>

  <messages>
    <arguments>
      <argument name="sourceDirectory"
value="/RAID/home/dem/Thales/P4/DEM_WORLD_30_AVG_403/s1_import/Airports_IABG"/>
      <argument name="outputDirectory"
value="/RAID/home/dem/Thales/P4/DEM_WORLD_30_AVG_403/s2_convert/Airports_IABG"/>
      <argument name="version" value="403" />
      <argument name="elevationType" value="AVERAGE" />
      <argument name="resolution" value="120" />
      <argument name="NW" value="(180,-90)" />
      <argument name="SE" value="(180,-90)" />
    </arguments>
  
```

output directory
 '/RAID/home/customer/P4/DEM_WORLD_30_AVG_403/s2_convert/Airports_IABG' and
 subdirectories created. OK

Figure 9A

information files

/RAID/home/dem/customer/P4/DEM_WORLD_30_AVG_403/s1_import/Airport_IABG'/Airports_IABG.* read.01

y=90 x=-180. no source segment (-180,90). Nothing done. OK
y=90 x=-179. no source segment (-179,90). Nothing done. OK
y=90 x=-178. no source segment (-178,90). Nothing done. OK
y=90 x=-177. no source segment (-177,90). Nothing done. OK
y=90 x=-176. no source segment (-176,90). Nothing done. OK
y=90 x=-175. no source segment (-175,90). Nothing done. OK
y=90 x=-174. no source segment (-174,90). Nothing done. OK
y=90 x=-173. no source segment (-173,90). Nothing done. OK
y=90 x=-172. no source segment (-172,90). Nothing done. OK
y=90 x=-171. no source segment (-171,90). Nothing done. OK

y=89 x=-175. no source segment (-175,89). Nothing done. OK
y=89 x=-176. no source segment (-176,89). Nothing done. OK
y=89 x=-177. no source segment (-177,89). Nothing done. OK
y=89 x=-178. no source segment (-178,89). Nothing done. OK
y=89 x=-179. no source segment (-179,89). Nothing done. OK

information files

/RAID/home/dem/customer/P4/DEM_WORLD_30_AVG_403/s2_convert/Globe05.*written. OK

</messages>

<statistics>

<start date="2002-10-31" time=22:52:50" />

<end date="2002-10-31" time=23:33:12 />

<run Time days = "0" time=00:40:21 />

</statistics>

</AISlog>

Figure 9B

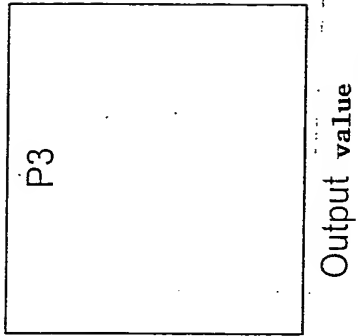
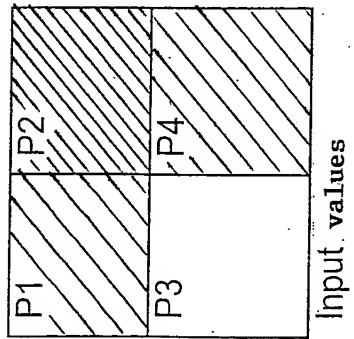


Figure 10A

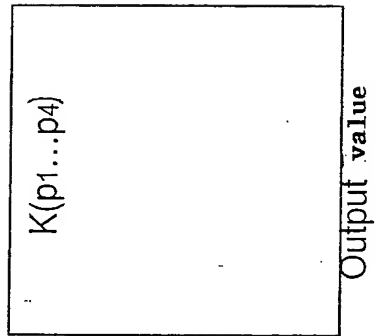
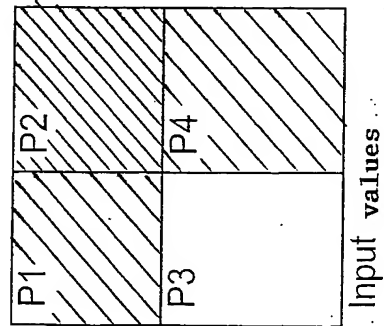


Figure 10B

S3 adjust:

Process data ():

if the input segment already has the required resolution

 copy the input data as output data

else

 adjust resolution

check if all elevation data are less than or equal MAX_ELEVATION if not, set elevation =
NO_DATA and second value=NO_DATA

adjust resolution ():

if current resolution is an integer multiple of required resolution then

 for each pair $p=(elv,dev)$ in the output segment

 let S be the number of value pairs corresponding to p in the input segment
 if required elevation type is MAXIMUM then

 find maximum elevation elvmax in S

 set output cell to $p=(elvmax,devmax)$

 if required elevation type is MAXIMUM. then

 let $p1...pN$ be the value pairs in S

 set output cell to $p=K(p1...pN)$

else

 print error message and halt

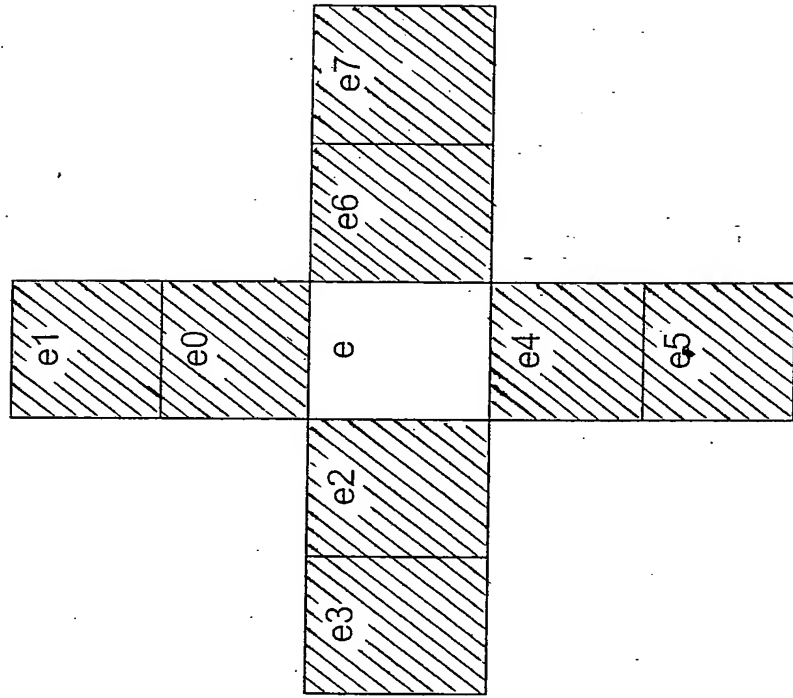


Figure 12

S4 Trust:

Process data ():
for each value pair $p=(e,d)$
 let $e_0...e_7$ be the neighbors to p according to schema
 let \bar{e} be the average elevation of $\{e_0, e_2, e_4, e_6\}$
 if $\bar{e} = \text{NO_DATA}$ then set $\bar{e} = 0$
 let σ be the standard deviation of $\{e_0...e_7\}$
 if $0 = \text{NO_DATA}$ then set $0 = 0$
 if $|e - \bar{e}| > 3\sigma$
 increase standard deviation by $|e - \bar{e}| - 3\sigma$
 else do nothing

Figure 13

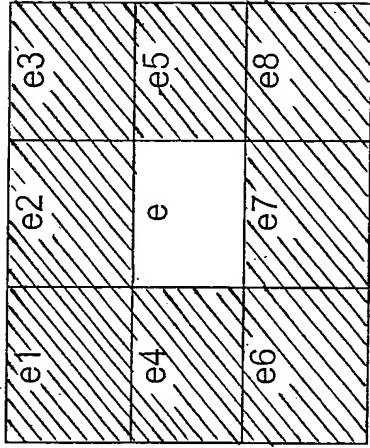


Figure 14

S5 offset:

Process data():

If the elevation type is already the required elevation type
 copy the input data as output data
else if the elevation data type is AVERAGE
 and the required elevation type is MAXIMUM then
 for each value pair p
 offset step (p)
 else print error message and halt

offset step (p):

if p is NO DATA
 do nothing
if p is sea water
 do nothing
else

 let the value pair be $p = (e, d)$
 let $e_1...e_8$ be the neighboring elevation values to p
 let e_{max} be the maximum elevation of $\{e, e_1...e_8\}$
 if $e_{max} = e$
 let \bar{e} be the average value of $\{e, e_1...e_8\}$
 $e_{max} = e_{max} + (e - \bar{e})$
 set the output elevation to e_{max}

Figure 15

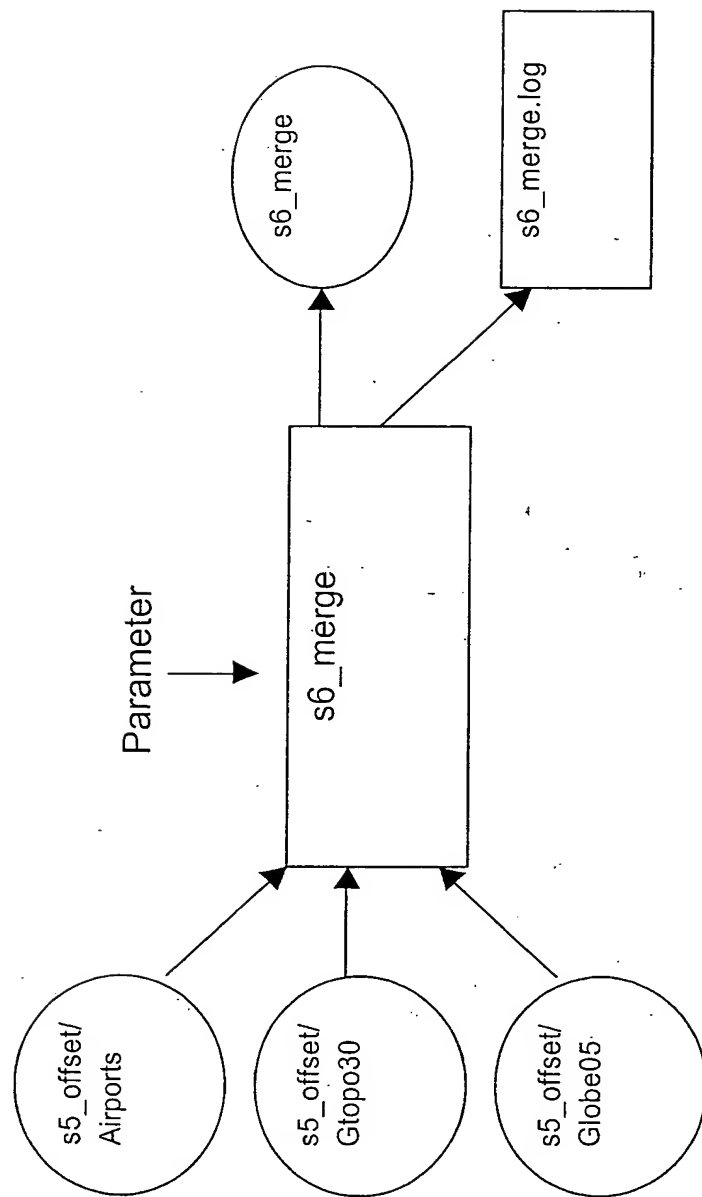


Figure 16A

	ND	T	W
ND	ND	T	W
T	T	$T=k(T,T)$	T
W	W	T	$W=k(W,W)$

Figure 16B

	ND	T	SW	BW
ND	ND	T	SW	BW
T	T	$T=k(T,T)$	T	$BW \rightarrow T$ $T=k(T,T)$ $T \rightarrow BW$
SW	SW	T	$SW=k(SW, SW)$	BW
BW	BW	$BW \rightarrow T$ $T=k(T,T)$ $T \rightarrow BW$	BW	$BW=k(BW, BW)$

Figure 16C

S6_merge:

process data ():

for each value pair

let N be the number of source data

let p_i be the value pair of source i , for $i=1\dots N$

output value pair $p = K(p_1\dots p_N)$

Figure 17

s7_export

```
create output directory outdir with all sub-directories
create two temporary directories: temp_elv, temp_qty
for each 5°x5° area
    for each file in this area
        read the elevation file
        read the deviation file
        write the elevation file to temp_elv in      elv file format
        write the deviation file to temp_qty in      qty file format
    for each cell in the deviation file
        if deviation > 20 then add cell to file DEFECTIVE_CELLS
        if there is at least one defective cell in the segment
            then add segment to DEFECTIVE_SEGMENTS
    tar and gzip temp_elv and write it to outdir/area/
    tar and gzip temp_qty and write it to outdir/area/
    write the .sea file to outdir/area/
    write MP5 checksum to outdir/area/
    write .sea, .ter, .nod to outdir
    copy process description file to outdir
    copy log files to outdir
    remove temporary directories
    create TDBCI to DOC directory
    create TDBPL to DOC directory
    copy TDBICI to DOC directory
    create README file
    create VERSION file containing the database ID
```

Fig. 18

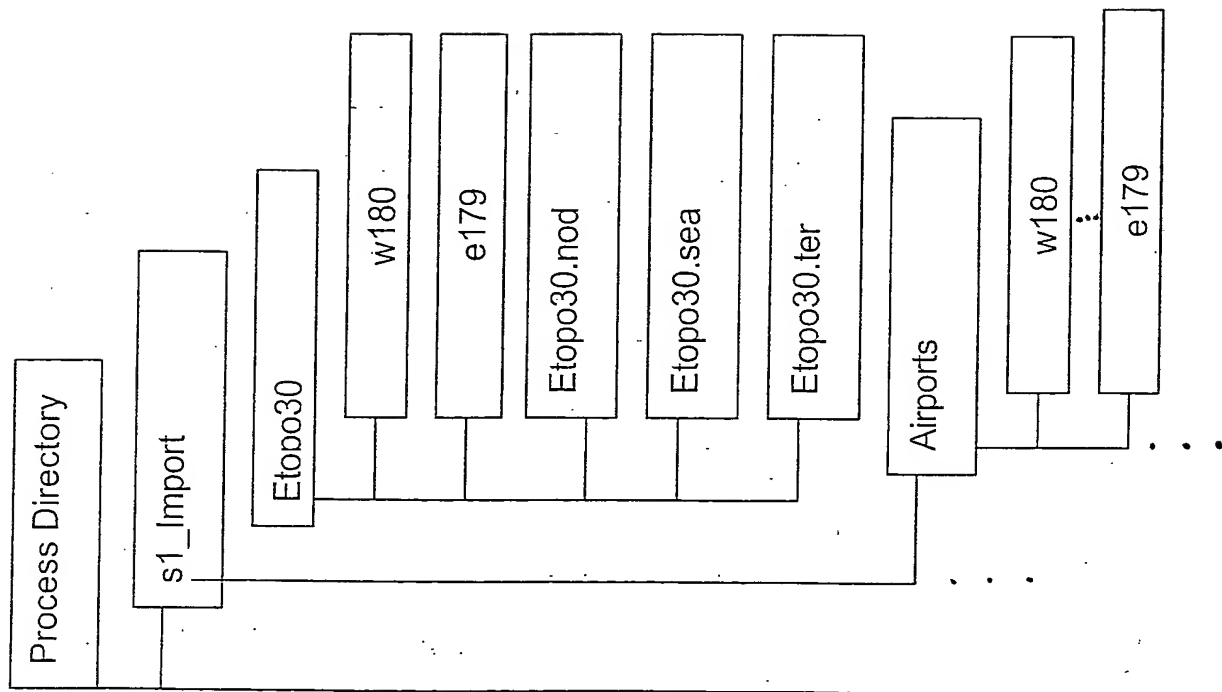


Figure 19 A

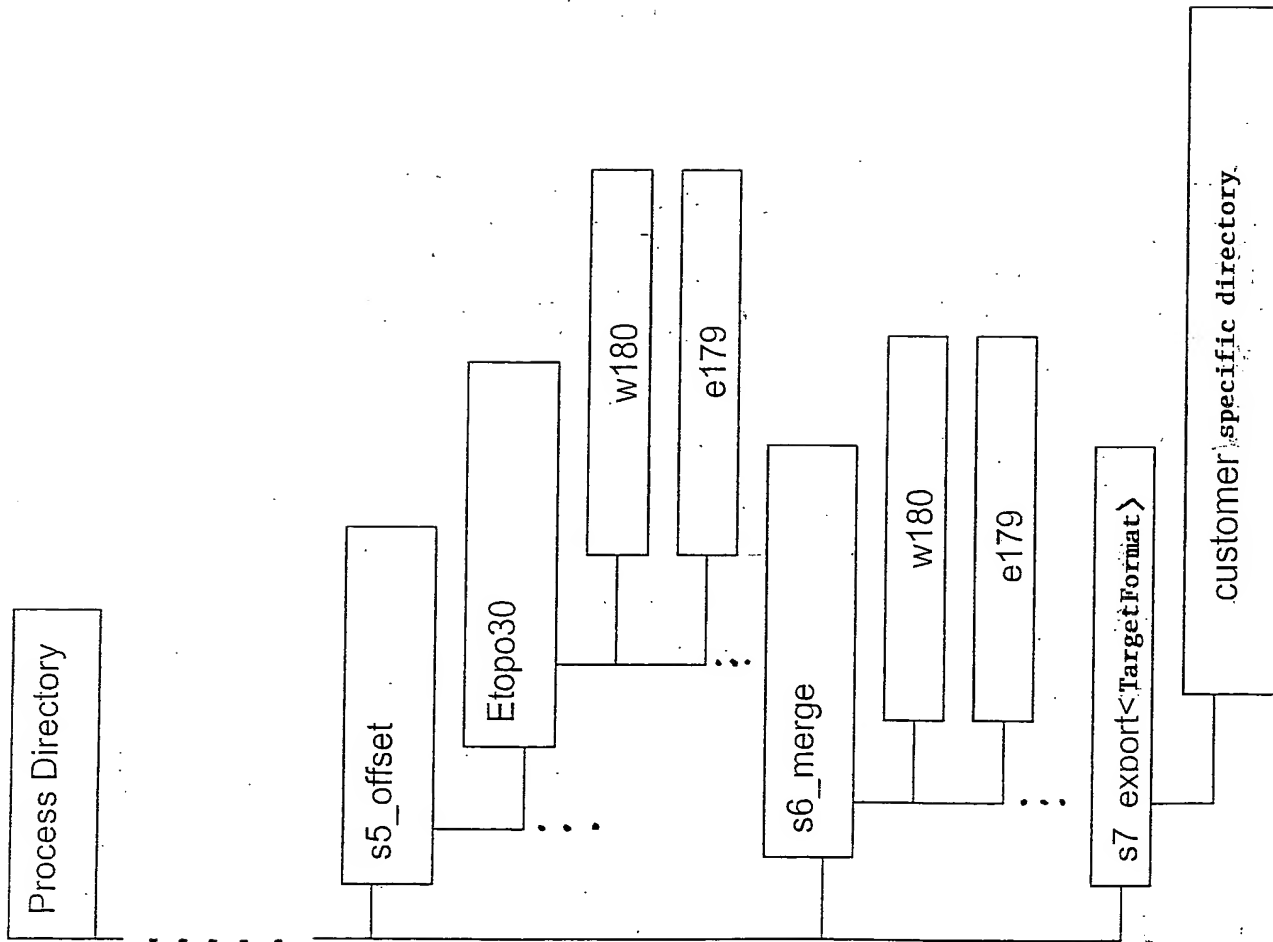


Figure 19B

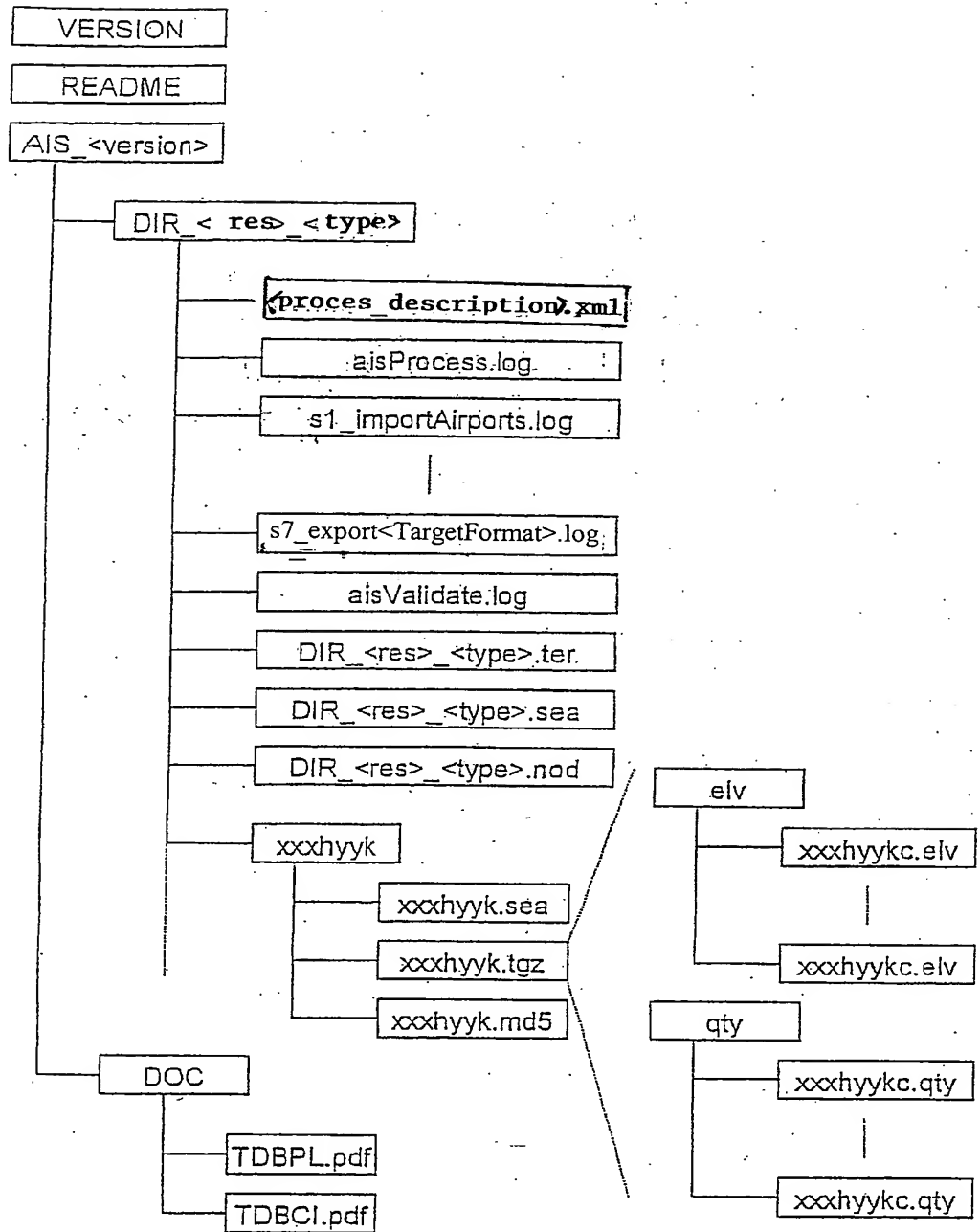


Fig. 20

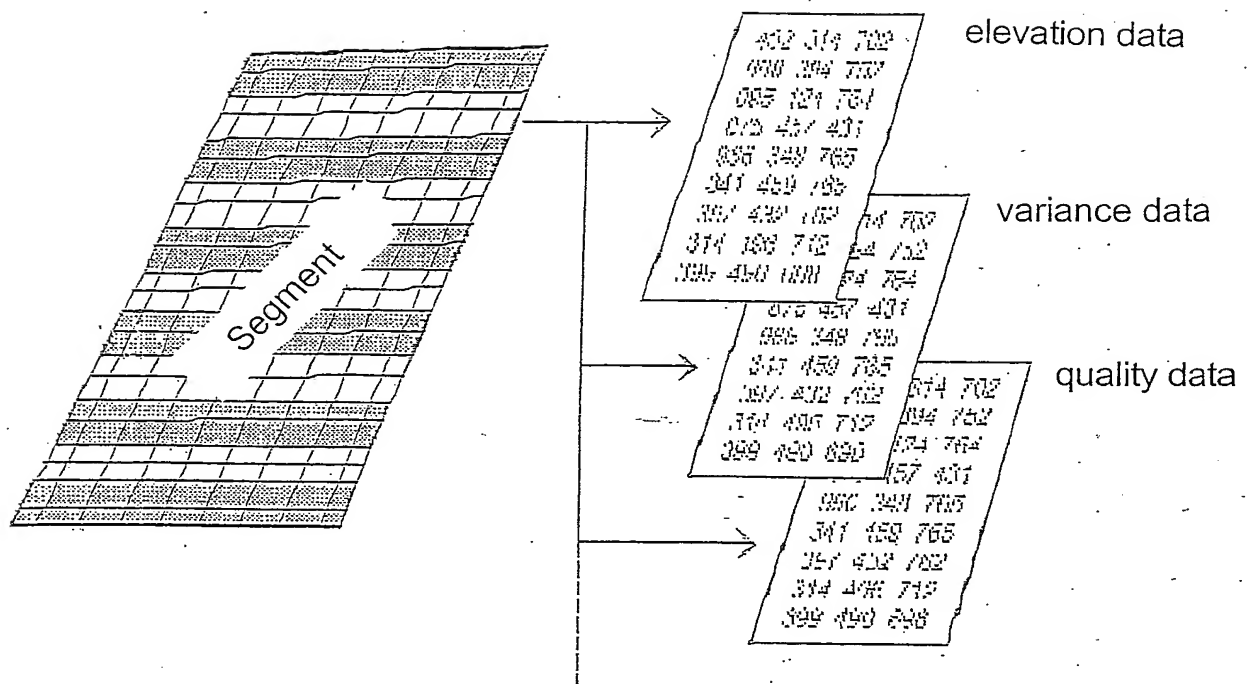


Fig. 21

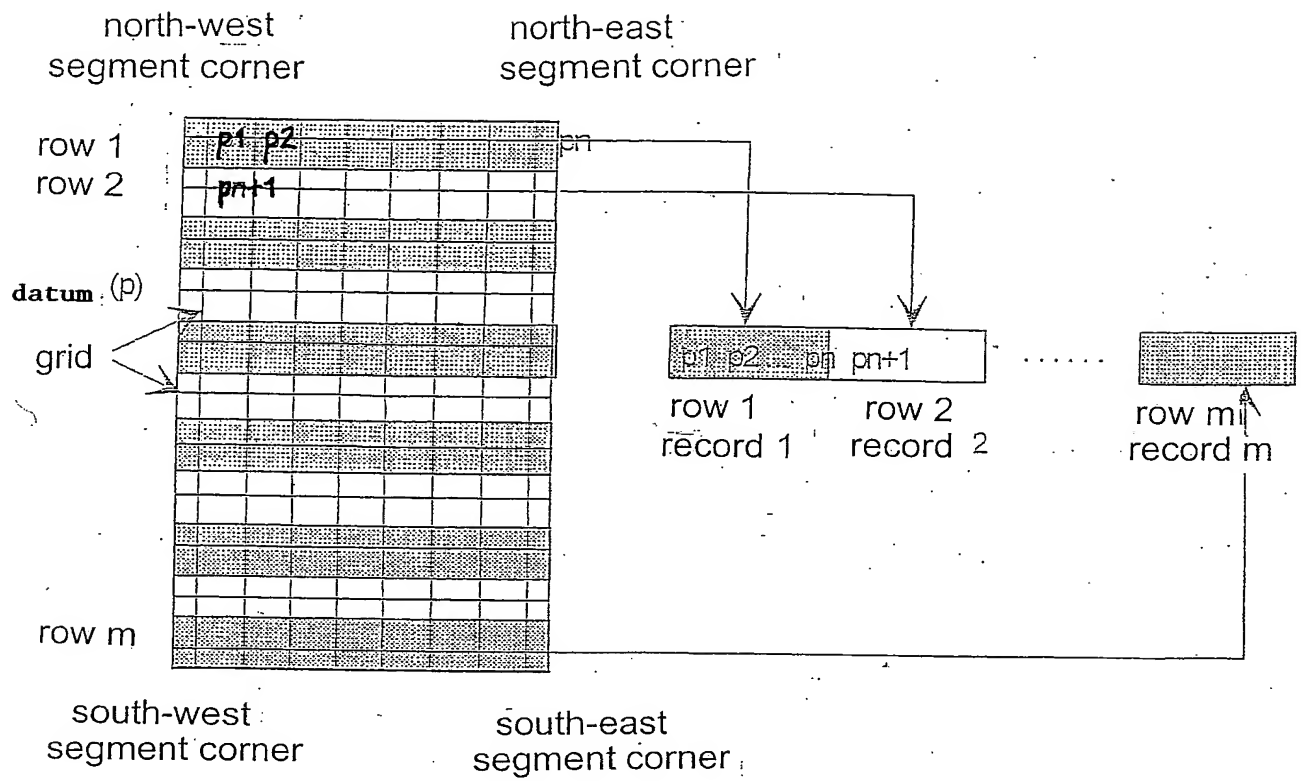


Fig. 22

```
//world_30_max.ter
//Terrain segment overview file
//10.10.2002
// (C) AIS Advanced Infodata Systems GmbH
100000000000000000
110000000000000000
111100000000000000
111111111111100000
111111111111110000
111111111111110000
111111111111111000
11111111111111111
.
.
.
```

Figure 23

Figure 24

Delete the Ref. Column

Byte Location	Description	Size (Bytes)
0	Data type identifier	2
2	Byte order	2
4	Byte order check value	2
6	Version code	4
10	Creation date	4
14	Segment name	14
28	Horizontal reference value	2
30	Vertical reference value	2
32	Longitude of the NW corner	4
36	Latitude of the NW corner	4
40	Longitude of the NE corner	4
44	Latitude of the NE corner	4
48	Longitude of the SW corner	4
52	Latitude of the SW corner	4
56	Longitude of the SE corner	4
60	Latitude of the SE corner	4
64	Horizontal segment size	4
68	Vertical segment size	4
72	Horizontal resolution	4
76	Vertical resolution	4
80	Longitude of first value	4
84	Latitude of first value	4
88	Number of columns	4
92	Number of rows	4
96	Content identifier 1	2
98	Content identifier 2	2
100	Content identifier 3	2
102	Content identifier 4	2
104	Content identifier 5	2
106	Content identifier 6	2
108	Content identifier 7	2
110	Content identifier 8	2
112	Content identifier 9	2
114	Content identifier 10	2

Location	Description	Number of Bytes
0	Version code	4
4	Creation date	4
8	Elevation scale	2
10	elevation data type	2
12	number of bytes per data value	2
14	minimum data value per segment	2
16	maximum data value per segment	2
18	Identifier for no data values	2

Figure 25A

Location	Description	Number of Bytes
0	Index	4
4	Minimum value of the record	2
6	Maximum value of the record	2
8	Longitude of the first value	4
12	Latitude of the first vale	4
16	First value of the record	2
18	Second value of the record	2
...	...	2
...	Last value of the record	2

Figure 25B

Location	Description	Number of Bytes
0	Version Code	4
4	Creation date	4
8	Accuracy scale	2
10	Number of quality description definitions	2
12	Number of bytes per quality identifier	2
14	Minimum quality identifier of the segment	2
16	Maximum quality identifier of the segment	2
18	Identifier for no data values	2

Figure 26A

Location	Description	Number of Bytes
0	Identifier of the quality description definition	2
2	Absolute horizontal accuracy – sigma 1	4
6	Relative horizontal accuracy – sigma 1	4
10	Absolute vertical accuracy – sigma 1	4
14	Relative vertical accuracy – sigma 1	4
18	Absolute horizontal accuracy – sigma 2	4
22	Relative horizontal accuracy – sigma 2	4
26	Absolute vertical accuracy – sigma 2	4
30	Relative vertical accuracy – sigma 2	4
34	Absolute horizontal accuracy – sigma 3	4
38	Relative horizontal accuracy – sigma 3	4
42	Absolute vertical accuracy – sigma 3	4
46	Relative vertical accuracy – sigma 3	4

Figure 26B

Location	Description	Number of Bytes
0	Index	4
4	Minimum quality value of the record	2
6	Maximum quality value of the record	2
8	Longitude of first value	4
12	Latitude of first value	4
16	First quality value of the record	2
18	Second quality value of the record	2
...	...	2
...	Last Quality value of the record	2

Figure 26C

Figure 27A Data Type Identifier

Type	Integer
Size (Bytes)	2
Description	The identifier identifies the file type. Supported types of files are: 1 = Elevation data 2 = Variance data 3 = Quality data 4 = Reliability data

Figure 27B Byte Order

Type	Integer
Size (Bytes)	2
Description	The value identifies the byte order used: 0 = unknown (not used in the AIS databases) 1 = LSB, little endian (e.g.. PC's, DEC Alpha) 2 = MSB, big endian (e.g. Sun SPARC, SGI)

Figure 27C Byte order check value

Type	Integer
Size (Bytes)	2
Description	The check value is a value that allows determination of the byte order. The value is always set to the integer 24575.

Figure 27D Version Code

Type	Integer
Size (Bytes)	4
Description	The version code contains a value that represents the database version.
Example	300 (for database with ID DEM WORLD 30 MAX 300)

Figure 27E Creation Date

Type	Integer
Size (Bytes)	4
Description	The creation date contains the date on which the file was created or revised. The format is day, month, year: DDMMYY.
Example	250969 stands for June 25, 1996

Figure 27F Segment Name

Type	Integer
Size (Bytes)	14
Description	The string that contains the segment name is always 14 characters long and formatted left-justified, whereby blank spaces are used for nonexistent characters. The string does not contain a final "0".
Example	"011E48NS" "00660E288ONS"

Figure 27G Location Reference

Type	Integer
Size (Bytes)	2
Description	The location reference designates the ellipsoid used. Supported ellipsoids are: LR = 1: WGS-84 Ellipsoid

Figure 27H Elevation Reference

Type	Integer
Size (Bytes)	2
Description	The elevation reference designates the zero level for the indicated elevation values. Supported formats are: ER = 1: WGS-84 ER = 2: Mean Sea Level

Figure 27I Longitude of Corner

Type	Integer
Size (Bytes)	4
Description	These values indicate the position of the segment. It <i>[sic]</i> stands for the longitude of one corner in arc-seconds. Positive values indicate east, negative values indicate west.
Example	39600 (equal to 11° East) -39600 (equal to 11° West)

Figure 27K Latitude of Corner

Type	Integer
Size (Bytes)	4
Description	These values indicate the position of the segment. It <i>[sic]</i> stands for the latitude of one corner in arc-seconds. Positive values indicate north, negative values indicate south.
Example	172800 (equal to 48° North) -172800 (equal to 48° South)

Figure 27L Longitudinal Segment Size

Type	Integer
Size (Bytes)	4
Description	This value indicates the size of the segment in the east-west direction in arc-seconds. It must be equal to the difference between the longitudes of the NW and NE corner or the SW and SE corner, respectively.
Example	10800 (equal to a segment 3° x 3° in size)

Figure 27M Latitudinal Segment Size

Type	Integer
Size (Bytes)	4
Description	This value indicates the size of the segment in the north-south direction in arc-seconds. It must be equal to the difference between the latitudes of the NW and SW corner or the NE and SE corner, respectively.
Example	10800 (equal to a segment 3° x 3° in size)

Figure 27N Longitudinal Resolution

Type	Integer
Size (Bytes)	4
Description	This value describes the resolution, i.e., the distance between two values, in the west-east direction in 1/100 arc-seconds.
Example	1500 (15 arc-seconds resolution)

Figure 27O Latitudinal Resolution

Type	Integer
Size (Bytes)	4
Description	This value describes the resolution, i.e., the distance between two values, in the north-south direction in 1/100 arc-seconds.
Example	1500 (15 arc-seconds resolution)

Figure 27P Longitude of the First Value

Type	Integer
Size (Bytes)	4
Description	This value describes the longitude of the center of the first cell in 1/100 arc-seconds.
Example	3960750 (western boundary of the segment 11° east. resolution 15.0 arc-seconds) -3960750 (western boundary of the segment 11° west. resolution 15.0 arc-seconds)

Figure 27Q Latitude of the First Value

Type	Integer
Size (Bytes)	4
Description	This value describes the latitude of the center of the first cell in 1/100 arc-seconds.
Example	17279250 (northern boundary of the segment 48° north. resolution 15.0 arc-seconds) -17279250 (northern boundary of the segment 48° south. resolution 15.0 arc-seconds)

Figure 27R Number of Columns

Type	Integer
Size (Bytes)	4
Description	This value describes the number of columns of the segment.
Example:	120 (1° segment, resolution 30")

Figure 27S Number of rows

Type	Integer
Size (Bytes)	4
Description	This value describes the number of rows of the segment.
Example	120 (1° segment, resolution 30")

Figure 27T Content Identifier

Type	Integer
Size (Bytes)	2
Description	<p>This value indicates which information are available for the segment. A value of 0 indicates that no additional information is available, a value of 1 means that the information in question is available. The following additional types of information are supported:</p> <p>Content Identifier 1: (Always 1) Content Identifier 2: Variance data Content Identifier 3: quality data Content Identifier 4: trust value Content Identifier 5: Reserved for future use Content Identifier 6: Reserved for future use Content Identifier 7: Reserved for future use Content Identifier 8: Reserved for future use Content Identifier 9: Reserved for future use Content Identifier 10: Reserved for future use</p>
Example	<p>IB1 = 1; IB2 = 0; IB3 = 1; IB4 = 0 indicates a segment which contains elevation and quality data.</p>

Figure 27U Data Scale

Type	Integer
Size (Bytes)	4
Description	<p>This value indicates the scale of the data.</p> <p>1 = Meters 2 = Centimeters</p>
Example	

Figure 27V Elevation type

Type	Integer
Size (Bytes)	2
Description	<p>The elevation type defines the type of elevation value given:</p> <p>ET = 0: Unknown elevation type</p> <p>ET = 1: An elevation value corresponds to the minimum elevation within the represented area</p> <p>ET = 2: An elevation value corresponds to the maximum elevation within the represented area</p> <p>ET = 3: An elevation value corresponds to the average elevation within the represented area</p> <p>ET = 4: An elevation value corresponds to the weighted average elevation within the represented area</p>

Figure 27W Bytes per value

Type	Integer
Size (Bytes)	2
Description	This entry indicates the number of bytes in which each value of the data record is encoded.
Example	2 (2 bytes are used for each value)

Figure 27X Minimum Value in the Segment

Type	Integer
Size (Bytes)	See "Bytes per Value"
Description	The value indicates the minimum value of the segment.

Figure 27Y Maximum Value in the Segment

Type	Integer
Size (Bytes)	See "Bytes per Value"
Description	The value indicates the maximum value of the segment.

Figure 27Z No data value

Type	Integer
Size (Bytes)	See "Bytes per Value"
Description	The entry indicates the value that is being used to identify the nonexistence of a value.
Example	-9999 is a typical NO_DATA value for two byte elevation data

Figure 27AA Entry Counter

Type	Integer
Size (Bytes)	4
Description	The counter serves as an index of the data record rows. The counter begins with 0 for the first row and ends with the total number of rows minus 1.

Figure 27AB Minimum Value in the Data Record

Type	Integer
Size (Bytes)	See "Bytes per Value"
Description	The value indicates the minimum value of the data record. NO_DATA entries are ignored, unless all of the values are NO_DATA, in which case the value is also set to NO_DATA.

Figure 27AC Maximum Value in the Data Record

Type	Integer
Size (Bytes)	See "Bytes per Value"
Description	The value indicates the <u>maximum</u> value of the data record. NO_DATA entries are ignored, unless all of the values are NO_DATA, in which case the value is also set to NO_DATA.

Figure 27AD Longitude of the First Data Record Entry

Type	Integer
Size (Bytes)	4
Description	The value describes the longitude of the center of the first cell in the current data record in 1/100 arc-seconds.
Example	3960750 (western boundary of the segment 11° east. <u>resolution 15.0 arc-seconds</u>) -3960750 (western boundary of the segment 11° west. <u>resolution 15.0 arc-seconds</u>)

Figure 27AE Latitude of the First Data Record Entry

Type	Integer
Size (Bytes)	4
Description	The value describes the latitude of the center of the first cell in the current data record in 1/100 arc-seconds.
Example	17279250 (northern boundary of the segment 48° north. resolution 15.0 arc-seconds) -17279250 (northern boundary of the segment 48° south. resolution 15.0 arc-seconds)

Figure 27AF Elevation Value

Type	Integer
Size (Bytes)	See "Bytes per Value"
Description	The elevation value contains the elevation of the corresponding area, or the NO_DATA identifier if no value is present.

Figure 27AG Number of Quality Descriptions

Type	Integer
Size (Bytes)	2
Description	The value indicates how many quality descriptions are present.

Figure 27AH Quality Description Identifier

Type	Integer
Size (Bytes)	See "Bytes per Value"
Description	<p>The identifier defines the index for a quality description. The index is used in the quality entries to point to a quality description that finally contains the actual quality for the data record.</p> <p>The identifier is a number between 0 and the number of quality descriptions - 1.</p>

Figure 27AI Absolute Horizontal Accuracy

Type	Integer
Size (Bytes)	4
Description	<p>The absolute horizontal accuracy indicates the position error of the individual cells, or the NO_DATA identifier if the position error is unknown.</p> <p>The following confidence levels are supported: Sigma 1 = 68.26% confidence level Sigma 2 = 95.44% confidence level Sigma 3 = 99.73% confidence level</p>

Figure 27AK Relative Horizontal Accuracy

Type	Integer
Size (Bytes)	4
Description	<p>The relative horizontal accuracy indicates the position error between two neighboring cells, or the NO_DATA identifier if the position error is unknown.</p> <p>The following confidence levels are supported:</p> <p>Sigma 1 = 68.26% confidence level</p> <p>Sigma 2 = 95.44% confidence level</p> <p>Sigma 3 = 99.73% confidence level</p>

Figure 27AL Absolute vertical accuracy

Type	Integer
Size (Bytes)	4
Description	<p>The absolute vertical accuracy indicates the absolute measurement error of the elevation values, or the NO_DATA identifier if the measurement error is unknown.</p> <p>The following confidence levels are supported:</p> <p>Sigma 1 = 68.26% confidence level</p> <p>Sigma 2 = 95.44% confidence level</p> <p>Sigma 3 = 99.73% confidence level</p>

Figure 27AM Relative vertical accuracy

Type	Integer
Size (Bytes)	4
Description	<p>The relative vertical accuracy indicates the error between two neighboring elevation values, or the NO_DATA identifier if the measurement error is unknown.</p> <p>The following confidence levels are supported:</p> <p>Sigma 1 = 68.26% confidence level</p> <p>Sigma 2 = 95.44% confidence level</p> <p>Sigma 3 = 99.73% confidence level</p>